

Listing of Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Original) A reaction system for producing a polymer comprising:
 - a) a polyisocyanate composition;
 - b) a polyfunctional isocyanate reactive composition;
 - c) an internal mold release composition, said internal mold release composition containing:
 - i) a fatty polyester, and
 - ii) a fatty acid which is different from the fatty polyester;
 - d) a poly(dimethylsiloxane)-polyoxyethylene surfactant; and optionally
 - e) a catalyst suitable for promoting a polymer-forming reaction between the polyisocyanate composition and the polyfunctional isocyanate reactive composition;

wherein the polyisocyanate composition and the polyfunctional isocyanate reactive composition are present in proportions suitable for the formation of a polymer; and

wherein the poly(dimethylsiloxane)-polyoxyethylene surfactant is essentially free of oxyalkylene units derived from alkylene oxides other than ethylene oxide and is present in the reaction system in an amount such that the poly(dimethylsiloxane)-polyoxyethylene surfactant contributes more than 0.006 moles of EO per 100g of the polymer derived from the reaction system.

2. (Currently Amended) The reaction system of claim 1 wherein the poly(dimethylsiloxane)-polyoxyethylene surfactant has the following formula:

$$(\text{CH}_3)_3\text{Si}-\text{O}-[(\text{CH}_3)_2\text{Si}-\text{O}]_n-[\text{CH}_3-\text{Si}(\text{R})-\text{O}]_m-\text{Si}(\text{CH}_3)_3$$

wherein,

R = $-(\text{CH}_2)_3-\text{O}-[\text{EO}]_x-\text{R}'$;

R' is H; C₁ to C₂₀ alkyl; or C₆ to C₂₅ aryl;

x is a number from greater than 1 up to ~~about~~ 24;

m is a number from 1 to ~~about~~ 25; and

n is a number from 0 to ~~about~~ 100.

3. (Currently Amended) The reaction system of claim 1 wherein the fatty polyester comprises a reaction product of:
 - (i) an aliphatic dicarboxylic acid;
 - (ii) an aliphatic polyol; and
 - (iii) a fatty monocarboxylic acid,wherein the fatty monocarboxylic acid has from 12 to ~~about~~ 30 carbon atoms.
4. (Original) The reaction system of claim 3 wherein the fatty polyester comprises a reaction product of adipic acid, pentaerythritol, and oleic acid.
5. (Original) The reaction system of claim 1 wherein the fatty acid is an aliphatic carboxylic acid having eight or more carbon atoms.
6. (Original) The reaction system of claim 1 wherein the fatty acid comprises at least one member selected from the group consisting of oleic acid and linoleic acid.
7. (Original) The reaction system of claim 1 wherein the catalyst comprises a tertiary amine catalyst.
8. (Original) The reaction system of claim 1 wherein the polyfunctional isocyanate reactive composition comprises one or more polyols.
9. (Original) The reaction system of claim 2 wherein x is 7, m is 11, and n is 47.
10. (Original) The reaction system of claim 2 wherein R' is selected from the group consisting of H and CH₃.
11. (Original) The reaction system of claim 2 wherein R' is H.

12. (Original) The reaction system of claim 2 wherein n is greater than 0.
13. (Original) The reaction system of claim 9 wherein R' is selected from the group consisting of H and CH₃.
14. (Original) The reaction system of claim 13 wherein R' is H.
15. (Original) A fiber reinforced polymeric molding produced from the reaction system of claim 1.
16. (Original) A mat reinforced polymeric molding produced from the reaction system of claim 1.